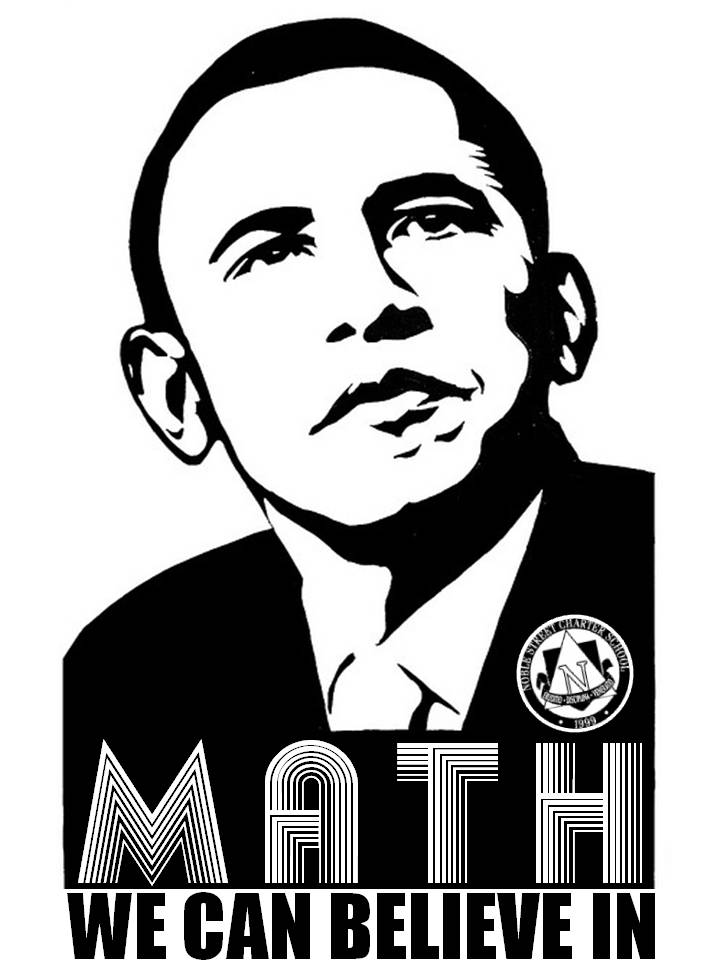
Name:

*Mr. Tiénou-Gustafson, Mr. Bielmeier*

Geometry, Period

Due Date: Mon, 10 Nov 2014



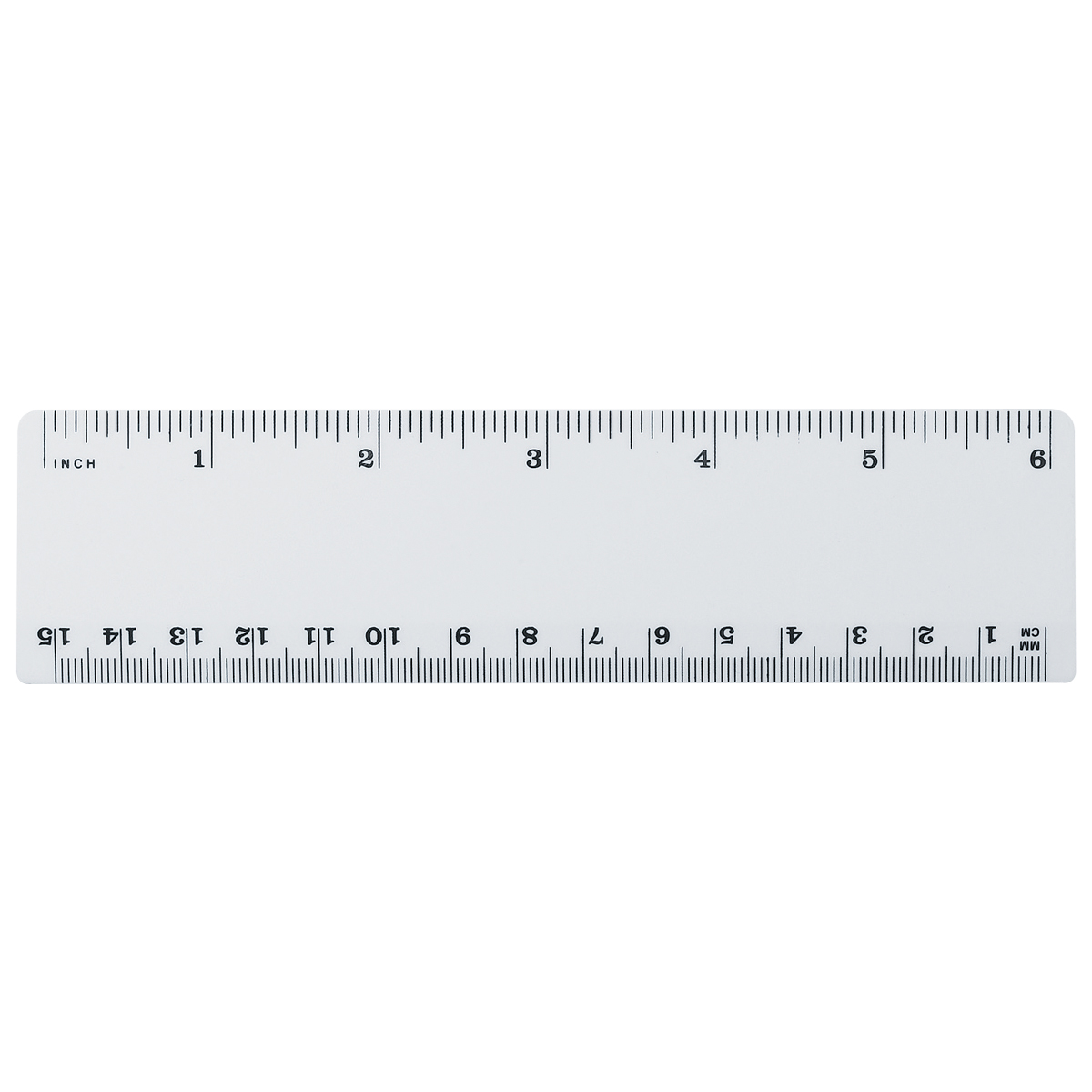
**Geometry**

**College Readiness Standards (CRS):**

* dsnfused ds HW #1ions, write)5 lines)ectively.ld Grammar Gaffselligently presenting your ideas in college writing & life.theMEA 401 (3.MD 8) Compute the area and perimeter of triangles and rectangles in simple problems
* MEA 502 (7.G 4) Compute the area and circumference of circles after identifying necessary information

***Area & Perimeter Discovery Data***

**I. CIRCLE data ~** Give all measurements in inches using your ruler, including fractions in sixteenths and in decimal form rounded to hundreths. **Ex**:



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***String Length / Circle Perimeter*** | ***Circle  Diameter*** | ***Visual Estimate:*** *perimeter/diameter* | ***Algebraic Estimate:*** *perimeter/diameter* |
| ***String 1*** | **≈** | **≈** |  |  |
| ***String 2*** | **≈** | **≈** |  |  |
| ***String 3*** | **≈** | **≈** |  |  |
| ***Average of perimeter/diameter:*** | | |  |  |

***Create a formula*** representing **the** **perimeter of a circle *in terms of* its diameter**, also using either your algebraic average or the average of your two averages if they are close.

P =

***Before moving on to rectangles & triangles…***

Pick ONE of the strings above (ideally one with a ***whole number*** centimeter length) and use the same string for all of part II & III below.

***String picked: 1, 2, 3*** *(circle one)*  ***Length of string:***

**II. RECTANGLE data ~** Give the dimensions of the 3 rectangles you create in centimeters. All 3 rectangles should use the same string length (one of the ones from   
part I). Draw each rectangle *to scale* on centimeter graph paper & label: 1, 2, 3.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***Perimeter of Rectangle*** | ***Rectangle Length*** | ***Rectangle Width*** | ***Area of Rectangle***  *Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |
| ***Rectangle 1*** |  |  |  |  |
| ***Rectangle 2*** |  |  |  |  |
| ***Rectangle 3*** |  |  |  |  |

**III. TRIANGLE data ~** Give the dimensions of the 3 rectangles you create in centimeters. All 3 rectangles should use the same string length as was used for the rectangles. Draw each triangle *to scale* on centimeter graph paper & label: 1, 2, 3.   
*If your triangle is* ***not*** *a right triangle (and not* ***all*** *should be), be sure to drop a dotted line from the top vertex to the base of your triangle, forming a right angle.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***Perimeter of Triangle*** | ***Triangle Base*** | ***Triangle Height*** | ***Area of Triangle***  *Formula:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |
| ***Triangle 1*** |  |  |  |  |
| ***Triangle 2*** |  |  |  |  |
| ***Rectangle 3*** |  |  |  |  |